

Date: Fri, 10 Dec 93 11:12:22 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1446
To: Info-Hams

Info-Hams Digest Fri, 10 Dec 93 Volume 93 : Issue 1446

Today's Topics:

1.5 foot Microwave Dish *HELP*
10m sked needed
Alinco dj-f1t battery packs
ANARTS RTTY NEWS787 28/11/93
Announcement: QRZ! Windows CDROM (Nov 93) Available
ARLK051 Keplerian data
ARRL BOOK???WHERE??? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 8 Dec 1993 02:17:31 GMT
From: nnntp.ucsb.edu!library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!
vixen.cso.uiuc.edu!sdd.hp.com!col.hp.com!srngenprp!glenne@network.ucsd.edu
Subject: 1.5 foot Microwave Dish *HELP*
To: info-hams@ucsd.edu

Matthew Chastain (matthew@cyberspace.com) wrote:

: Recently I purchased a surplus aircraft microwave dish and would like to use
: it. The only problem is I have not been able to find very much information
: on feeding it. I do have 2 feed horns that go to it, but am afraid that
: I will have to adapt a gunplexer! Here is the information on the dish.

You will probably do well to measure the F/D of the reflector and build your

own feed. Pyramidal horn feeds which taper from standard waveguide dimensions are easy to make from copper clad PC board and copper foil tape (like stain glass fabricators use). See my series in Feb/Jun/Oct 1988 Ham Radio Magazine for some details. Your particular reflector may want a different design but that should get you started. Don't trust information about feeds in old versions (at least) of the RSGB vhf handbook.

Glenn Elmore n6gn

ax.25 n6gn@wx3k.#nocal.ca.usa.na
amateur IP: glenn@SantaRosa.ampr.org
Internet: glenne@sr.hp.com

Date: 8 Dec 1993 09:24:55 -0800
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!spool.mu.edu!
olivea!apple.com!apple.com!not-for-mail@network.ucsd.edu
Subject: 10m sked needed
To: info-hams@ucsd.edu

djadams@silver.ucs.indiana.edu (david jerome adams) writes:

>Greetings! I've put up a new 10m dipole and would like to try it out
>this weekend. I'll be calling on USB around 28.350khz between 1500
>and 1600 this saturday....(that should be 28.350Mhz, by the way)...
>Could anyone with their radios on make a special effort to listen for
>my call? Thanx.

Tee, hee, you may not find unoccupied spectrum around 28.35 MHz.

If "this weekend" is the weekend of the December 11, there are going to be thousands of stations making a special effort to listen for you. The ARRL 10m Contest is on! Donno what it will be like with sun freckles near 100.

Contests are great as field strength meters manned by humans (are testers human? :-). Well, binary field strength meters, that is. In a contest, you are either 59, or you are "too light to copy" :-). You can still get a quantitative feel by going more and more QRP and see how many stations can still hear you. The big guns have amazingly good ears, I have found.

The more sane Hams will be working the TARA RTTY Sprint this weekend :-). The really sane ones will be staying away from 10m and the RTTY subbands

altogether.

OK, I'll admit it -- I am totally insane. If time permits, I will be trying to have fun with both the RTTY (heck, it is only 4 hours anyway) and the 10m 'tests :-).

73,

Kok Chen, AA6TY kchen@apple.com
Apple Computer, Inc.

Date: Wed, 8 Dec 1993 14:52:23 GMT
From: mentor.cc.purdue.edu!npirs!dheisler@purdue.edu
Subject: Alinco dj-f1t battery packs
To: info-hams@ucsd.edu

I have a dj-f1t with the 7.2 volt 700 ma battery. it won't hold a charge anymore so i was considering getting the 12 volt battery.

is it thicker than the 7.2 pack? and does the pack come with the correct charger stand or is that an extra?

thanks
dave

Date: 6 Dec 93 23:58:09 GMT
From: munnari.oz.au!sol.ccs.deakin.edu.au!news.cs.uow.edu.au!news.ci.com.au!eram!dave@uunet.uu.net
Subject: ANARTS RTTY NEWS787 28/11/93
To: info-hams@ucsd.edu

[ANARTS - Australian National Amateur Radio Teletype Society]

ATV news from Sydney

Anyone interested in ATV in Australia might like to know that the Gladesville Club in Sydney has just finished refurbishing the TV station VK2TVG to as close to broadcast specs as possible for an amateur station, with a view to a possible further satellite test transmission next year. Still to come are some microwave links to make this happen, these should be

only a few weeks away with a bit of luck. ... promises,
promises, you know the old song, but perhaps this time...

Anyway, we will keep you informed.

IPS weekly report

19 November - 25 November 1993

Issue no.: 48

Date of issue: 26 November 1993

Date	19	20	21	22	23	24	25
10cm	101	100	97	99	100	100	97
A	17	09	05	05	07	05	(04 estimated)
T	-37	56	39	53	52	80	71

Summary of activity

Solar activity was very low 19th-24th November, and low on 25th.

The geomagnetic field at Learmonth (WA) was unsettled to active on 19th, and quiet, or quiet to unsettled for the remainder of the period.

Ionospheric F2 critical frequencies at Sydney on 19th were 30 to 40 per cent below predicted monthly values, and were near normal for the rest of the period.

Forecast for the next week (26 November - 2 December)

Solar : Low.

Geomagnetic: Quiet to unsettled 26-30 November, active to minor storm 1-2 December.

Ionospheric: Near predicted monthly values November 26 - December 1, depressions of 20-40 per cent December 2.

Courtesy of IPS Radio and Space Services

VK2SG RTTY DX NOTES 19 NOV 93

VK2SG RTTY DX NOTES FOR W/E 19 NOV 1993 (BID RTDX1119)

IT IS NOT TOO LATE FOR YOU TO WRITE TO YOUR REPRESENTATIVE ON THE DX ADVISORY COMMITTEE (DXAC) EXPRESSING YOUR SUPPORT FOR A RTTY (DIGITAL) HONOR ROLL. COMMITTEE VOTES WILL BE TALLIED, AND ANNOUNCED, AT THE END OF NOVEMBER.

OUR INFORMATION THIS WEEK CAME FROM 9X5LJ, DJ3IW AND THE DB0BCC CLUSTER NODE, I5FLN, IK5AAX, K0IR, K0SR, ON7GB, W2TKU, WB2CJL, ZS5S, THE NJ0M NODE OF THE TWIN CITIES DX PACKETCLUSTER NETWORK, AND OPDX/BARF80. THANKS TO ALL FOR YOUR HELP.

THE WAEDC PROVIDED MOST OF THE RTTY ACTIVITY THIS PAST WEEK.

FRIDAY 12

0014-14084 C06CG	0028-14086 VP8BFH
0300--7082 YV5MUX	0304--7082 NL7VX
1145-14090 VK2KM	1254-14083 UM7/UA3TT QSL DF7RX
1322-21087 UT5RP	1403-14083 J28TT
1513-14082 OH0BBF	2123-14087 PJ2MI
2128-14088 ZF2VV QSL NX1L	2131-14091 HP1XBH
2132-14088 5X1C	

SATURDAY 13

0727-14084 SV2BB	1213-21089 ER0F
1244-21092 FR5DX	1305-21079 OH0BBF
1312-14081 UH8EA	1406-21088 ZS9A
1627-21084 EC3ACG	1637-14086 RT7U
1700-28085 WP4KAG	1835--7037 UH8EA
1905-21091 ZV2BW	2020--3580 OH0BBF
2209--3795 409S	2225-21087 ZF2VV
2235-21082 VK2RL	2246-21082 VK2RT
2257-14087 BY1QH	2258--3581 UH8EA
2332--7035 OH0BFF	

SUNDAY 14

0018-14084 BY1QH	0038-14088 WL7EF
0130-21090 C21/ZL1AM0 QSL ZL1AM0	
	0737-21085 FR5DX
1004-21084 SV2XMV	1118-21090 ZP5FGS
1150-21082 TT80B0 QSL WA40B0 (NOT W40B0) SEE NOTE	

1210-21089 TY1PS	1310-14087 5B4UX
1346-21087 4X6U0	1348-14081 RU1A
1411-21090 GM0/WN1G	1415-21081 EA9MY
1420-21085 HJ3SAN	1428-21090 HK1LAQ
1431-21097 A22BW	1438-21095 DU1MP
1500-21089 XE/DJ6OU	1520-28089 HK0HEU
1620-21087 HP1XBH	1800--3584 OH0BBF
1806--3582 UZ9CWA	1808--7038 UH8EA
1853-21076 CP1FF	2106-14092 A9MKR (?)
2149-14083 5N/DF8QB	2159--7037 VK6HD
2210--7031 YL75KL	2210--7031 UN5PR
2210--7035 ER0F	2248-14084 VK6HD
2315-14092 PP7GAG	2318-14082 OA4ZV
2327--3589 GD3HDL	

MONDAY 15

0935-21088 TT80B0	1001-21084 UI80AW
1025-14088 HK4DF	1029-14089 UV9AV
1911-21085 J88BS	1943-14091 FG5FI
2023-14088 J88BS	2118-14086 5K3W QSL HK3SGP
2314-14088 XL7U FOR PREFIX QSL VE7UBC	

TUESDAY 16
NO REPORTS

WEDNESDAY 17

2227-14084 C06RR

THURSDAY 18
NO REPORTS

NOTES OF INTEREST:

THERE HAVE BEEN ERRONEOUS, ON-THE-AIR REPORTS, THAT THE UPCOMING FEBRUARY 1994 PETER I DX'PEDITION (3Y0PI) HAS ESTABLISHED CERTAIN RULES ABOUT MULTIPLE BAND/MODE CONTACTS, AND PORTABLE STATION DESIGNATORS. RALPH, K0IR, LEADER OF THE EXPEDITION, HAS EMPHATICALLY STATED THAT NO SUCH RULES EXIST, NOR, OR ANY CONTEMPLATED.

REPUBLIC OF BELAU, KC6 - SEVERAL JAPANESE OPERATORS WERE ACTIVE ON ALL BANDS, 160-6 METERS, UNTIL TUESDAY 23 NOVEMBER ON RTTY/CW/SSB. QSL TO JK1QHK.

SOUTH COOK I., ZK1 - UNTIL 25 NOVEMBER, THREE JAPANESE OPERATORS WERE ACTIVE FROM HERE ON ALL BANDS, 160-10

METERS, RTTY/CW/SSB. QSL TO JI1NJC.

FRENCH ANTARCTIC ISLANDS, FT8X, FT8Z - CHRISTIAN, FT8WD WAS LEAVING CROZET ON 24 NOVEMBER. THE SHIP PICKING HIM UP WILL DELIVER ANOTHER HAM TO EITHER KERGUELEN OR AMSTERDAM ISLAND. DETAILS WHEN AVAILABLE.

THE DXCC DESK ADVISED STEVE, K0SR, THAT TT80B0 IS NOT BEING ACCEPTED AT THIS TIME PENDING THE RECEIPT OF PROPER DOCUMENTATION. A PREVIOUS CREDIT FOR A CONTACT WITH HIM LAST SPRING WAS REMOVED. IF YOUR DXCC HAS BEEN CREDITED WITH TT80B0, BETTER VERIFY IF IT IS STILL IN YOUR CURRENT TOTAL.

QSLs FROM THE RECENT 9H1HL OPERATION ARE ARRIVING. HAS ANYONE SEEN CARDS FROM E31A YET?

FOR NEXT WEEK'S BULLETIN, SEND YOUR BANDPASS AND NOTES OF INTEREST TO LUCIANO, I5FLN AT ZS5S.ZAF.AF, OR AT 9X5LJ.#KGL.RWA.AF.

73 ES GOOD HUNTING DE JULES W2JGR AT W2TKU.#SRQFL.FL.USA.NA

Coming events

December	3rd	ANARTS meeting
	12th (local)	TARA 2nd Annual RTTY Sprint
1994		

January	8th-9th	ARRL Rtty Roundup

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD, or the Secretary (Pat) VK2JPA @ VK2RWI

News items may be sent to Broadcast Officer PO Box 60 Blacktown 2148 Australia, or by packet to VK2JPA @ VK2RWI.

The Internet address for the Broadcast Officer is :
pat1@extro.ucc.su.oz.au

The Society welcomes news items on any digital subjects from anywhere in the broadcast coverage area. We are looking forward to news from your areas to let other amateurs know what you are doing in the hobby. Hope to hear from you.

73s de Pat VK2JPA Broadcast Officer
That concludes ANARTS NEWS787 28/11/93.
Inserted by VK2BQS (Jim) Vice President ANARTS.

--

Dave Horsfall (VK2KFU)	VK2KFU @ VK2RWI.NSW.AUS.OC	PGP 2.3
dave@esi.COM.AU	...munnar!esi.COM.AU!dave	available

Date: 8 Dec 1993 21:18:43 -0700
From: ucsnews!sol.ctr.columbia.edu!spool.mu.edu!sgiblab!swrinde!cs.utexas.edu!
asuvax!pinyon.libre.com!not-for-mail@network.ucsd.edu
Subject: Announcement: QRZ! Windows CDRom (Nov 93) Available
To: info-hams@ucsd.edu

Announcing the new QRZ! Windows CDRom

Well, we've finally finished it and there are a bunch of new features.
First off, in addition to the DOS search program, we now have a
Microsoft Windows compatible search engine which adds tons of
new functionality. We now support searches by callsign, name, city,
zip code, street address, and previous callsign. The Canadian callsigns
are also integrated right into the main database.

The windows software allows printing on any Windows installed printer
and provides for editing of search results files - using any editor you
choose.

We've also added a new section containing prerecorded RTTY, AMTOR,
ASCII, and Packet messages for TNC testing. These .WAV files are
SoundBlaster compatible and come in all popular speeds and shifts.

We've also taken the mods database and placed it into hypertext format
which means that you can browse it using only the mouse under windows.
All of the popular text files from buffalo.edu are also hyper-ized.

In addition, we've included the last 10 months of the rec.radio.*
newsgroup articles, along with the usual large batch of shareware.

We have also committed to a quarterly updating schedule which will
mean a new disc every 3 months with the latest FCC data.

As before, we're making a special offer to readers of the rec.radio
newsgroups. To find out how to get your first edition copy of QRZ!
Windows direct from the author, send an e-mail message to:

info@qrz.com

You'll receive an automatic reply detailing the particulars of the offer.

Also note that we're now on the internet with our own name (qrz.com), and will be available to answer questions as best we can.

If you wish to contact me directly, just e-mail to flloyd@qrz.com.

73,

-fred

--

Fred Lloyd, AA7BQ flloyd@qrz.com

Date: Mon, 6 Dec 1993 12:31:39 -0700
From: usc!math.ohio-state.edu!news.cyberstore.ca!nntp.cs.ubc.ca!alberta!nebulus!
ve6mgs!usenet@network.ucsd.edu
Subject: ARLK051 Keplerian data
To: info-hams@ucsd.edu

SB KEP @ ARL \$ARLK051
ARLK051 Keplerian data

ZCZC SK63
QST de W1AW
Keplerian Bulletin 51 ARLK051

Date: Wed, 8 Dec 1993 12:33:56 GMT
From: library.ucla.edu!europa.eng.gtefsd.com!emory!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: ARRL BOOK???WHERE???
To: info-hams@ucsd.edu

In article <thweatt.755217435@mustang18> thweatt@rtsg.mot.com (John A. Thweatt) writes:

>Could anyone tell me where I can purchase the ARRL handbook? What
>is the price? Also what is the difference between the different
>issues of this book (ie. Do they issue new copies each year and if so
>Why???)? If they change the issues each year, what is one of the
>better years of this publication????

The ARRL Handbook can be found at most stores that sell amateur radio equipment, and of course directly from the ARRL, 225 Main St. Newington CT. There is a new edition each year. There are a couple of reasons for that. First and foremost they have to dumb it down to the reading level of current amateurs. It's currently at about an eighth grade reading level. And second, the simple CW transmitter construction projects included become obsolete because the parts are no longer available.

One of the better years for the Handbook is 1962. That's the edition to which I refer most often. It uses bigger words and more complex sentence structure, but it should be accessible to someone who was a tenth grader in 1962, or to current college graduates. It includes more ambitious construction projects, including SSB transmitters and receivers. It's also printed and bound using higher quality materials.

You should also look for the various RSGB publications. The technical quality, writing quality, and binding quality of their publications are at a much higher level. If you read German or Japanese, their publications are also at a high level of quality.

Gary

--

Gary Coffman KE4ZV	I kill you,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	You kill me,	uunet!rsiatl!ke4zv!gary
534 Shannon Way	We're the Manson Family	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-sorry Barney	

Date: 6 Dec 93 22:37:15 GMT
From: ftpbox!mothost!delphinium.rtsg.mot.com!mustang18!thweatt@uunet.uu.net
Subject: ARRL BOOK???WHERE???
To: info-hams@ucsd.edu

Could anyone tell me where I can purchase the ARRL handbook? What is the price? Also what is the difference between the different issues of this book (ie. Do they issue new copies each year and if so Why???)? If they change the issues each year, what is one of the better years of this publication????

Thanks,
John Thweatt

Date: Tue, 7 Dec 1993 21:26:07 GMT
From: netcomsv!netcom.com!greg@decwrl.dec.com
To: info-hams@ucsd.edu

References <mac.755206284@depot.cis.ksu.edu.cis.ksu.edu>,
<gregCHo43F.9o4@netcom.com>, <VBREAUULT.93Dec7112925@rinhp750.gmr.com>sv
Subject : Re: Scratchi, January, 1960

In article <VBREAUULT.93Dec7112925@rinhp750.gmr.com> vbreault@rinhp750.gmr.com (Val Breault) writes:

>
>Races? Are you sure you read the article? I've just re-read it and
>found no reference to race at all. I was able to find the word
>"black" used in "black leather jackets" but that's it.
>
>Scratchi, in my minds eye, is an enthusiastic though semi-literate
>middle aged man. I would guess he was a cajun, but that may be just
>the way I inferred the dialect. The world is not perfect. There are
>lots of Scratchis out there, and some of them want to make a contribution.

Sorry, but you know not whereof you speak.

"Scratchi," as a regular in CQ magazine, was a caricature of an Asian (specifically Japanese) person used as a foil for various OP-ED columns. He was depicted in very stereotypical fashion in both the text and illustration, and always spoke in stereotypical pidgin English.

If you present the "Scratchi" columns to some Asian folks, they will probably tell you that they represent just the exact kind of racist stereotypes against which they've been fighting since the 1800's.

While the ideas expressed in "Scratchi" sometimes had merit, it is just as well that the mode of expression is now behind us. Let's let it stay there.

Greg

Date: Fri, 10 Dec 1993 02:31:18 GMT
From: netcomsv!netcom.com!greg@decwrl.dec.com
To: info-hams@ucsd.edu

References <gregCHrsQL.3F0@netcom.com>, <2e7fer\$ajq@crchh941.bnr.ca>,
<2e7sj4\$o3l@nntpd.lkg.dec.com>com
Subject : Re: Scratchi, January, 1960

In article <2e7sj4\$o3l@nntpd.lkg.dec.com> dm_johnson@dave.enet.dec.com (Dennis Johnson) writes:

>

>
> And second, the main reason he's taking grief is not so much
>for what he says as the way he says it.

No.

I was quite clear and quite measured in my initial response to Myron's post.

I became much less measured when confronted with knee-jerk, reactionary responses which failed to address the issues presented but instead were written in response to some made-up image which bore little relation to what was actually being said. And even less measured when confronted with certain individuals attempts to remain ignorant of what was actually said. And to continue to engage in and defend racist behavior.

>Zealots are a part of the problem - not the answer. Zealot's bang the mind's
>door shut before the message can get a foot in it.

You're so right, Dennis. Zealots who respond to any suggestion that smacks of social progressivism with cries of "PC! PC!" are part of the problem. Zealots who start screaming "First Amendment! Oppression! 1984!" if someone dares to suggest that a writer voluntarily temper his words in consideration of the feelings of others.

> If Greg truly believes in
>what he says then he should be evaluating why he has received 1 supporting
>message and roughly 10-15 responses questioning his message.

Well, I know *Dennis* doesn't have my password. He clearly hasn't read my mail.

> Greg has shown
>he can use sophmoric sarcasm quite well but he has not shown that he is capable
>of analyzing the situation and adapting his approach to make his point in a
>manner which has impact.

Wrong again, ace. I tried the reasoned approach. Usually when people end up shouting at you, it is because you were too damned deaf to hear the talking. And I didn't use sarcasm. The people whom I described as illiterate, racist, and reactionary ARE that, in my opinion. I do not use those terms lightly.

Dennis, if you have experienced racism first-hand, as you claim, why is it that you continue to defend it?

Greg

Date: (null)
From: (null)
SB KEP ARL ARLK051
ARLK051 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

STS-61

1 22917U 93075 A 93338.39481481 0.00000532 50000-4 0 112
2 22917 28.4700 47.1258 0004745 35.5549 89.3999 14.92968181 312

HST

1 20580U 90037 B 93338.39481481 0.00000532 50000-4 0 3697
2 20580 28.4700 47.1258 0004745 35.5549 89.3999 14.92968181196963

A0-10

1 14129U 83058 B 93328.37358304 0.00000006 10000-3 0 2126
2 14129 27.1967 354.6814 6020029 132.8205 296.5509 2.05877703 50585

RS-10/11

1 18129U 87054 A 93332.42270253 0.00000059 57861-4 0 8140
2 18129 82.9259 117.2417 0010740 217.0444 143.0089 13.72327034322379

U0-11

1 14781U 84021 B 93334.56060295 0.00000200 37883-4 0 6150
2 14781 97.7956 353.4973 0011482 179.8391 180.2820 14.69091713521149

RS-12/13

1 21089U 91007 A 93335.60629654 0.00000062 59526-4 0 6162
2 21089 82.9186 157.9722 0028484 300.8203 59.0141 13.74031015141507

A0-13

1 19216U 88051 B 93335.84660375 -.00000229 10000-4 0 8204
2 19216 57.9029 281.1629 7211005 329.5804 3.4589 2.09726084 10377

U0-14

1 20437U 90005 B 93334.69642848 0.00000066 33274-4 0 9151
2 20437 98.6046 57.0601 0011889 55.3459 304.8840 14.29806558201220

A0-16

1 20439U 90005 D 93334.68970974 0.00000056 29505-4 0 7155
2 20439 98.6123 58.0868 0012249 55.8918 304.3434 14.29863405201239

D0-17

1 20440U 90005 E 93334.66327841 0.00000062 31771-4 0 7159
2 20440 98.6134 58.3203 0012311 55.5998 304.6342 14.30000807201247

W0-18

1 20441U 90005 F 93334.21540152 0.00000060 31195-4 0 7162
2 20441 98.6128 57.8916 0012863 57.2334 303.0100 14.29978366201181

LO-19

1 20442U 90005 G 93334.69648230 0.00000055 29004-4 0 7150
2 20442 98.6137 58.5780 0013153 55.4957 304.7459 14.30070867201268

FO-20

1 20480U 90013 C 93330.50118171 -.00000019 -16586-4 0 6111
2 20480 99.0189 155.8314 0541157 78.7761 287.3633 12.83222138178132

AO-21

1 21087U 91006 A 93334.52703634 0.00000084 82657-4 0 3724
2 21087 82.9438 289.7212 0034068 279.0086 80.7210 13.74529132142291

UO-22

1 21575U 91050 B 93334.67727514 0.00000086 36002-4 0 4157
2 21575 98.4566 47.9847 0007826 156.5425 203.6132 14.36868808124578

KO-23

1 22077U 92052 B 93335.44100612 0.00000000 10000-3 0 3129
2 22077 66.0879 334.0117 0005948 336.7167 23.3555 12.86282019 61351

Arsene

1 22654U 93031 B 93321.93138545 -.00000051 10000-3 0 2107
2 22654 1.4185 113.8817 2935300 161.0091 211.2000 1.42195961 2757

KO-25

1 22827U 93061 E 93335.16121361 0.00000081 40985-4 0 2771
2 22827 98.6724 47.7643 0010126 57.1985 303.0169 14.27795920 9439

IO-26

1 22826U 93061 D 93335.65645330 0.00000067 35056-4 0 2150
2 22826 98.6753 48.2666 0010130 68.0262 292.2022 14.27695161 9506

AO-27

1 22825U 93061 C 93335.66121621 0.00000054 30201-4 0 2144
2 22825 98.6748 48.2617 0009506 67.0884 293.1315 14.27592650 9503

PO-28

1 22829U 93061 G 93299.20720744 0.00000225 10695-3 0 2074
2 22829 98.6741 12.0806 0010509 157.5898 202.5757 14.27978468 4306

Mir

1 16609U 86017 A 93336.31717093 0.00019897 25845-3 0 103
2 16609 51.6174 94.8137 0005668 49.1420 311.0252 15.58790642445335

Keplerian bulletins are transmitted twice weekly from W1AW.

The next scheduled transmission of these data will be Tuesday,
December 7, 1993, at 2330z on Baudot and AMTOR.

NNNN

/EX

Date: Fri, 10 Dec 1993 11:22:37 +0000

From: newshub.nosc.mil!crash!news.sprintlink.net!demon!abacus!dmb@network.ucsd.edu

To: info-hams@ucsd.edu

References <jchappel.79.755364937@sanders.lockheed.com>,

<gregCHrsuv.3Jt@netcom.com>, <jchappel.80.755465269@sanders.lockheed.com>

Subject : Re: Scratchi, January, 1960

In article <jchappel.80.755465269@sanders.lockheed.com>,
Joel Chappell <jchappel@sanders.lockheed.com> wrote:
>....What do you really know about amateur radio Greg?
>Do you have a ticket? I have not seen your callsign here....

Is this a new prerequisite for accessing this group .. I hope not.

73

-David (sorry, no ticket).

--

David Byrne, Abacus Software, London, UK Tel: +44 71 930 4884
Email: dmb@abacus.demon.co.uk Fax: +44 71 839 7445
Here's a koan: If you have ice-cream I will give you some. If you have none,
 I will take it away from you. (it's an ice-cream koan).

End of Info-Hams Digest V93 #1446

